

HISTORIC AMERICAN ENGINEERING RECORD

HAER  
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Index to Photographs

**Orient Bridge**

HAER No. WA-32

On Richardson Road, spanning the Kettle River  
Orient  
Ferry and Stevens counties  
Washington

NOTE: Photographs were taken by Harvey S. Rice, photographer, March 1992

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| WA-32-1 | CONTEXTUAL VIEW OF BRIDGE, LOOKING SOUTH FROM UPSTREAM OF THE KETTLE RIVER   |
| WA-32-2 | CONTEXTUAL VIEW OF BRIDGE, SHOWING DIAGONALS SLOPING UP AND AWAY FROM EITHER SIDE OF THE BRIDGE CENTER TYPICAL OF THE BASIC PRATT TRUSS DESIGN (THE PARKER TRUSS IS A VARIATION OF THE PRATT STYLE), LOOKING SOUTHEAST FROM UPSTREAM OF THE KETTLE RIVER |
| WA-32-3 | CONTEXTUAL VIEW OF BRIDGE, SHOWING POLYGONAL TOP CHORD, LOOKING NORTHEAST FROM DOWNSTREAM OF THE KETTLE RIVER  |
| WA-32-4 | CONTEXTUAL VIEW OF BRIDGE, SHOWING SINGLE-SPAN PIN-CONNECTED PARKER THROUGH TRUSS DESIGN, LOOKING NORTH FROM DOWNSTREAM OF THE KETTLE RIVER  |
| WA-32-5 | ELEVATION VIEW OF BRIDGE, SHOWING ORIGINAL CONCRETE-FILLED STEEL TUBULAR PIERS, LOOKING SOUTHWEST  |
| WA-32-6 | VIEW SHOWING APPROACH TO BRIDGE, LOOKING EAST  |
| WA-32-7 | VIEW SHOWING APPROACH (EAST PORTAL) TO BRIDGE, LOOKING WEST  |
| WA-32-8 | VIEW SHOWING UNDERSIDE OF BRIDGE, LOOKING UP AND SOUTHEAST   |
| WA-32-9 | DETAIL VIEW OF BRIDGE, SHOWING INCLINED END POST AND EXPANSION SHOE OF THE UPSTREAM (NORTH) PIER (WEST BANK)   |

Long Lake Hydroelectric Plant, Spillway Dam  
HAER No. WA-32  
Index to Photographs  
(Page 2)

WA-32-10           DETAIL VIEW OF BRIDGE, SHOWING THIN DIAGONAL EYEBARS IN  
TENSION AND HEAVY CHANNEL BEAMS WITH RIVETED BRACING IN  
COMPRESSION

WA-32-11           DETAIL VIEW OF BRIDGE, SHOWING 1909 PLAQUE ON UPSTREAM  
(NORTH) INCLINED END POST (EAST BANK)

The following are photocopies of original 1909 Orient Bridge plans. Original plans are in the archives of the  
Office of the County Engineer, Department of Public Works, City of Republic, Ferry County, Washington

WA-32-12           GENERAL PLAN AND PROFILE ORIENT BRIDGE (Sheet 1 of 4)

WA-32-13           DETAIL OF END POSTS AND TOP CHORDS, ORIENT BRIDGE (Sheet 2 of 4)

WA-32-14           DETAIL OF DIAGONALS, CHANNELS AND CHANNEL LACING, PINS,  
ROLLER SHOES, TOP AND LOWER STRUTS, FLOOR BEAMS (Sheet 3 of 4)

WA-32-15           DETAIL OF BRIDGE PIERS AND PIER SUPPORTS (Sheet 4 of 4)

**NOTE: Photocopies are reproductions of 8 x 10-inch negatives.**